

CLAIMS

What is claimed is:

1. A hydraulic binder, comprising:
cement as main ingredient; and
a mixture added to the cement and made of moist green vitriol and a drying agent, wherein the drying agent is a dry sand with a granulation between 0.1 mm and 0.4 mm.
2. The hydraulic binder of claim 1, and further comprising an acidifying agent added to the mixture for decreasing the pH value.
3. A hydraulic binder, comprising:
cement as main ingredient; and
a mixture added to the cement and made of moist green vitriol and a drying agent, wherein the drying agent is catalytic dust.
4. The hydraulic binder of claim 3, and further comprising an acidifying agent added to the mixture for decreasing the pH value.

5. A hydraulic binder, comprising:
cement as main ingredient; and
a mixture added to the cement and made of moist green vitriol and a drying agent, wherein the drying agent is silica gel.
6. The hydraulic binder of claim 5, and further comprising an acidifying agent added to the mixture for decreasing the pH value.
7. A hydraulic binder, comprising:
cement as main ingredient; and
a mixture added to the cement and made of moist green vitriol and a drying agent, wherein the drying agent is alumina.
8. The hydraulic binder of claim 7, and further comprising an acidifying agent added to the mixture for decreasing the pH value.
9. The hydraulic binder of claim 3, wherein the catalytic dust is obtained by the Claus process.
10. The hydraulic binder of claim 7, wherein the drying agent is activated aluminum oxide (Al_2O_3).

11. A hydraulic binder, comprising:
 - cement as main ingredient;
 - a mixture added to the cement and made of moist green vitriol and a drying agent; and
 - an acidifying agent added to the mixture for decreasing the pH value to a value below 4.
12. The hydraulic binder of claim 11, wherein the drying agent is selected from the group consisting of dry sand with a granulation between 0.1 mm and 0.4 mm, catalytic dust, silica gel and alumina.
13. The hydraulic binder of claim 11, wherein the fraction of the drying agent in the mixture is between 0.5 weight % to 10 weight % in relation to the green vitriol.
14. The hydraulic binder of claim 11, wherein the fraction of the drying agent in the mixture is between 1 weight % and 3 weight % in relation to the green vitriol.
15. The hydraulic binder of claim 11, wherein the mixture is added to the cement at an amount between 0.01 weight % to 5 weight % in relation to the amount of cement.

16. The hydraulic binder of claim 11, wherein the acidifying agent is sulfuric acid.
17. The hydraulic binder of claim 11, wherein the pH value of the mixture is maintained at a range between 2 and 3.
18. The hydraulic binder of claim 11, wherein the acidifying agent is added at an amount between 0.5 weight % to 10 weight % in relation to the amount of green vitriol.
19. The hydraulic binder of claim 11, wherein the acidifying agent is added at an amount between 1 weight % and 3 weight % in relation to the amount of green vitriol.
20. The hydraulic binder of claim 11, and further comprising at least one additive selected from the group consisting of zinc, aluminum, phosphor and titanium oxide.
21. The hydraulic binder of claim 20, wherein the additive is added at an amount of less than 10 weight %.

22. A method of making a hydraulic binder, comprising the steps of adding a mixture of moist green vitriol and a drying agent to cement, wherein the drying agent is selected from the group consisting of dry sand with a granulation between 0.1 mm and 0.4 mm, catalytic dust, silica gel and alumina.
23. The method of claim 22, and further comprising the step of adding an acidifying agent to the mixture for reducing the pH value.
24. The method of claim 23, and further comprising the step of adding to the mixture at least one additive selected from the group consisting of zinc, aluminum, phosphor and titanium oxide.